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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS-ETC F/6 4/2
193188 MLRS. MISSILE NUMBERS SM177, BN193, BN179, BN160, BN151, —ETC(U)
UNCLASSIFIED GRADCOM/ASL-DR-1296

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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS-ETC F/6 4/2
193188 MLRS. MISSILE NUMBERS SM177, BN193, BN179, BN160, BN151, —ETC(U)

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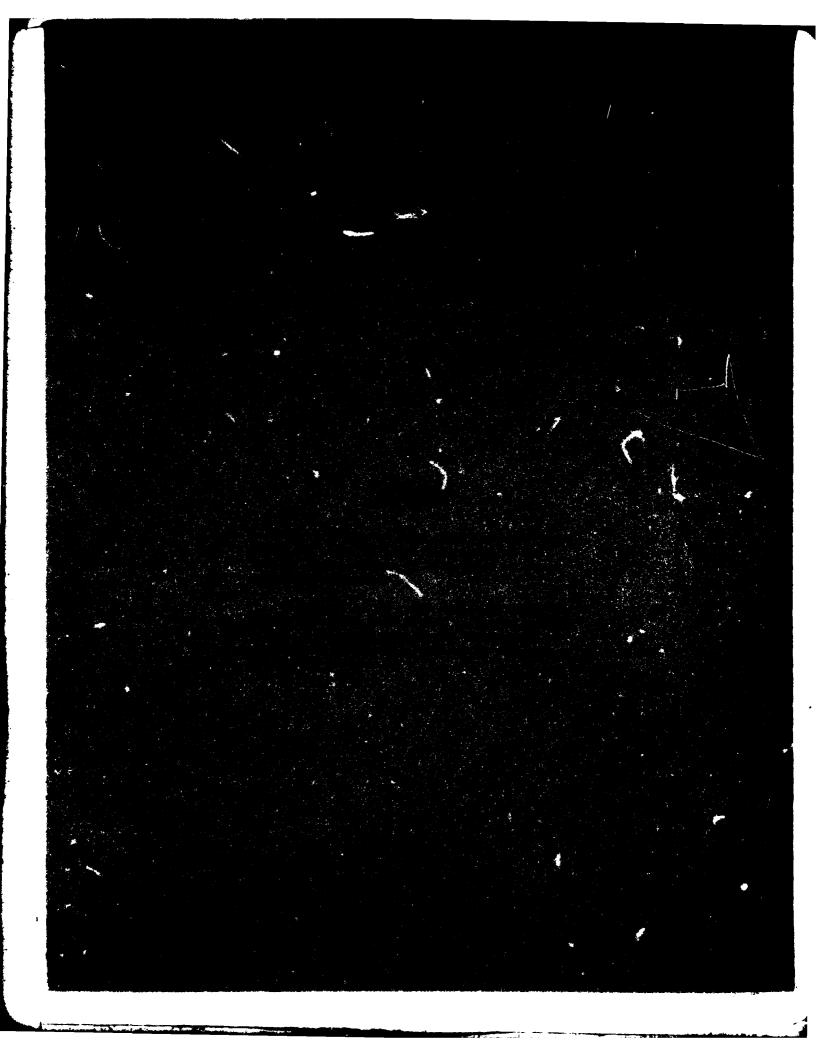
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4. TITLE (and Substite) 19318B MLRS, Missile No. B! BN151, BN150, Round No. V-		
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(e)		8. CONTRACT OR GRANT NUMBER(s)
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11. CONTROLLING OFFICE NAME AND A		12. REPORT DATE
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White Sands Missile Range. 14. MONITORING AGENCY NAME & ADDR	NM 88002	28
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Meteorological data gathere BN177, BN143, BN179, BN160, presented in tabular form.	ed for the launching of the BN151, Bn150, Round Nos	he 19318B MLRS, Missile No. . V-268/PQ8 THRU V-273/PQ13

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INTRODUCTION

19318B MLRS, Missile Numbers BN-177, BN-143, BN-179, BN-160, BN-151, and BN-150, Round Numbers V-268/PQ-8 Thru V-273/PQ-13, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0830:00 0830:05, 0830:09, 0830:14, 0830:18, and 0830:23 MDT. The scheduled launch times were 0830:00, 0830:04.5, 0830:09, 0830:13.5, 0830:18 and 0830:22.5 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained form pilot-balloon observations at:

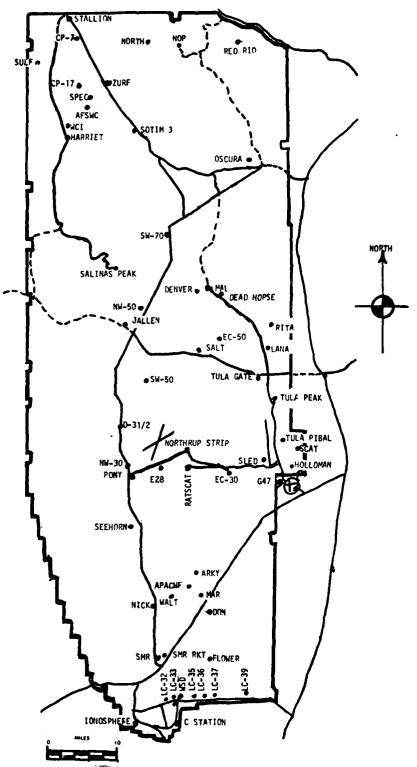
SITE AND ALTITUDE

WSD 2 Km DON 2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME	Accession For
WSD 0540 MDT LC-37 0630 MDT WSD 0702 MDT LC-37 0830 MDT	NTIS GRA&I DTIC TAB Unannowneed Justification
DIIG COPY INSPECTED 2	By

WSMR METEOROLOGICAL SITES



			
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PSYCHROPETRIC COMPUTATION	:3:11	DRY BULD TEMP.	.4:31 8008 TEX	MET BULB DEPR.	DEW POINT	RELATIVE HUMID.

TABLE ____ EC-33 FIXED POLE ANEMOMETER MEASURED WINDS

Y185,958.90 Y186.012.00 Y186,116.0 H4018.74 H4033.57 H4063.92 38.7 ft. AGL 53.0 ft. AGL 83.6 ft.					
DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS	
153	06	T - 30	147	09	
150	06	T -20	147	09	
150	07	T -10	153	08	
145	07	T 0.0	145	09	
177	03	T +10	146	09	
	74.29 12.00 57 t. AGL DIR DEG 153 150 150	74.29 12.00 57 t. AGL DIR SPEED KNOTS 153 06 150 06 150 07 145 07	74.29 12.00 74.29 12.00 71.2.00	74.29 X485,877.29 12.00 Y186,116.06 57 H4063.92 t. AGL 83.6 ft. AGL DIR SPEED KNOTS DEG KNOTS 153 06 T -30 150 06 T -20 150 07 T -10 153 07 T 0.0 145 07 T 0.0	

TABLE	3	LC-33	METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED WINDS	(202 FT TOWE	R)
-------	---	-------	----------------	-------	------------	----------------	--------------	----

LEVEL #1, 12 X484,982.64		3, H3983.00 (base)	LEVEL #2, 62 X484,982.64		'3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	153	06	T - 30	159	09
T-20	153	06	T -20	155	ng
<u>T- 10</u>	150	06	T-10	155	08
T0.0	149	06	T 0.0	150	09
T+10	154	06	T +10	150	09

LEVEL #3, 10 X484,982.64		73, H3983.00 (base)	LEVEL #4, 20 X484,982.64		73, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T -30	152	09	T -30	135	10
T-20	147	09	Т -20	138	10
T-10	146	09	T -10	136	10
T 0.0	144	08	τ 0.0	130	09
T+10	147	09	T +10	134	10

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATL 08 June 1982

SITE: WSD

TIME: 0830 MDT

WSTM COORDINATES:

X = 488,580.00

Y = 185,045.00

H=3,989.00

SITE: DON

TIME 0840 MDT

WSTM COORDINATES:

X = 511,988.37

Y = 247,396.36

4= 3,996.83

METERS AGL DEGREES KNOTS METERS SURFACE 160 04 SURF 150 186 10 15 210 195 08 21 270 274 02 27 330 292 04 33 390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	LAYER MIDPOINT	DIRECTION	SPEED	LAYER MI
SURFACE 160 04 SURF 150 186 10 15 210 195 08 21 270 274 02 27 330 292 04 33 390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175			KNOTS	METERS
210 195 08 21 270 274 02 27 330 292 04 33 390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175		160	04	SURFAC
270 274 02 27 330 292 04 33 390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	150	186	10	150
330 292 04 33 390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	210	195	80	210
390 271 05 39 500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 1750	270	274	02	270
500 258 11 50 650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	330	292	04	330
650 260 10 65 800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	390	271	05	390
800 243 07 80 950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	500	258	11	500
950 204 08 95 1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	650	260	10	650
1150 222 12 115 1350 226 15 135 1550 216 18 155 1750 207 18 175	300	243	07	800
1350 226 15 135 1550 216 18 155 1750 207 18 175	950	204	08	950
1550 216 18 155 1750 207 18 175	1150	222	12	1150
1750 207 18 175	1350	226	15	1350
1730 207 20	1550	216	18	1550
2000 205 22 200	1750	207	18	1750
=	2000	205	22	2000

Data obtained from Nike-Herc Radar Tracked pilot-balloon observation.

LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS
SURFACE	140	09
150	176	11
210	186	11
270	196	11
330	207	11
390	215	12
500	227	12
650	240	13
800	244	16
950	247	18
1150	247	19
1350	250	18
1550	250	17
1750	249	19
2000	241	24

Data obtained from single theodolite tracked pilot-balloon observation

TABLE 5

AIMING AND T-TIME COMPUTER MET MESSAGES

WSD .0540	MDT	LC-37	0630 MDT
METCM13240	64	METCM13	
0811601228	78	0812501	
00213006	29620878	0033800	4 29450877
01288007	29910868	0134801	
02486007	29830844	0246500	
03468011 2	29590806	0346600	7 29530805
04402011 2	29160760	04417011	29170759
05394018 2	28800717	05398018	3 28820716
06372021 2	28440675	06378021	28380674
07402022 2	28000636	07401022	27940635
	27550598	08420022	27490597
09421028 2	27120562	09419023	27050561
WSD 0702 M	DT	LC-37 08	20 MDT
METCM132406		METCM132	
08130012287	9	08145012	
00320004 2	9700879	00302006	
	9810369	01327012	
02475007 29	9930844	02403003	
03487009 29	9610806	03428008	
04419010 29	9220761	04393014	
05393018 28	8880717	05374019	
06384022 28	3490676	06379022	28400675
07400022 28	3020637	07399024	27950635
08415023 27	7580599	08405023	27480598
09409025 27	7140563	09429029	27040561
		10440031	26680527
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SIGNIFICANT CLYCL UAIN 1590020255 WHITE SANCE TARLE 6	TEMPERATUKE AIR DEWPOLINI DEGKEES CENTIGNALE	7.3	d •0	3.0	2.0	٠,	3.1	-1.1	1	-2.3	7. h-	-11.5	-15.0	-10.9	-13.4
SIGNIFICAND 15900 WHITE TARLE 6	TEKIPE AIR DEGKEES	20.7	25.5	25.6	5.15	21.1	17.0	12.4	11.7	10.4	7.5	5.5	-2.5	4.7-	-10.1
S L	PRESSURE VENMETALIC ALLITUDE ILLLIBARS MSL FEET	3983.0	4303.7	4631.2	6.0264	0.925.0	7955.2	10388.3	10744.6	11463.9	12550.1	13302.9	16314.1	18256.4	19290.2
3y89.g0 FELT MSL G540 MDT is	PRESSUME GEGNETALO ALLITUDE MILLIBARS MSL FEET	H 78.0	868.4	850.6	350.0	4.767	764.0	700	691.0	673.0	K. 944	629.0	4,145	5202	200.0
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GEUMETRIC ALIITUDE MSL FELI	PRESSURE MILLIUARS	TEHP AIK DEGREES	TEMPERATURE K DEWPOINT EES CENTIGRADE	RCL.HUM. PERCENT	DEASITY GM/CURIC MLTER	SULU OF SUUMD NNO 1 S	WILL DATA	NTA SPEEU KNOTS	INUEX OF REFRACTION
3989.0	870.0	20.7	7.3	45.0	1030.3	669.3	120.0	0.9	1.000270
4000	871.7	20.9	7.4	41.7	1035.3	6.600	120.0	6•3	1.000276
4500.0	862.5	25.6	5.7	28.0	1001.6	674.7	154.9	2.4	1.000262
5000.0	941.6	74.4	2.5	24.0	0.686	673.1	グ・レナン	3.4	1.000252
5500.0		23.5	2•1)	24.3	975.0		260.0	7.3	1.000248
0.0000		22.7	† • f	24.5	4•096	671.1	204.5	9.5	1.000243
0.0050	804.3	21.8	э э	24.8	947.0	1.070	Z45.1	0.6	1.000239
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6500.0	2.647	+ · · ·	ופ	31.2	3.264	665.4	C + 10 X	7.01	
0.0006	7.30.8	15.4		33.55	885.6	1.790	4.177	15.	1.000224
0.0066	152.1	14.0	£.	33.3	0/3.5	0.100	C-177	16.1	1.00002
10000.6	703.8	13.2	-1.0 5.1	37.4 40.6	760° 340° 340°	660.5 659.1	210.0	19.1 20.0	1.000218
11000.0	9.499	11.2	6:-	42.9	835.9	0.859	212.0	20.7	1.000213
11500.0	672.5	10.3	-2.3	41.1	823.7	650.9	212.5	21.1	1.000208
12000.0	0.009	9•0	-3.2	112.0	812.7	655.3	210.0	21.2	1.000204
12500.0	640.0	9•2	2•4-	45.9	801.0	653.7	7.027	21.5	1.000200
13000.0	630-1	6.3	7.8-	34.0	791.4	6-140	450.4	22.0	1.000192
13500.0	0.450	2•0	-11-5	29.0	១•08/		501.03	55.3	1.000186
U-000hT	614.7	9•5 •	-11.6	51.7	769.9		7.007	22.6	1.000184
0.000+1	7.100	?•?	9·11-	***	1.60	7./+0	6.163	0.22	
15000.0	290.0	1.0	-12.0	37.0	748.5	0.040	7.96.7	22.4	1.060179
15500.0	•	٠,٦	-12.4	39.7	738.1		7.057	23.7	1.000176
16000.0	560.1	-1.7	-12·H	42.3	727.9		238.5	25.5	1.000174
16500.0		-3•0	-12.7	47.1	717.5	_	236.6	28.0	1.000172
17000.0	240.7	-4.2	-11.8	55•3	707.0	639.4	240.0	29.0	1.000170
17500.0	530.2	-5.5	-11.3	63.5	1.969		C+2.0	29.5	1.000169
7.00087		-6.8	-11.0	71.8	680.5		0.447	32.3	1.000167
18500.0	515.9	-8.0	-11.4	76.5	670.6	634.5			1.000104
19000.0	505.8	-9.3	-12.5	77.4	8•099	633.3			1.000161

VEDUETIC COUNDINATES 52.40043 LAT DEV 106.37033 LON DEV										
02.400 32.400 106.370	SPEED	KNO1S	8.7	0	13.0	19.8	21.4	22.5	20.8	
	ALAD CATA	-	240.5	239.1	254.5	210.1	219.0	230.0	7.047	
2 2 3	NEL-HU.		24.	25.	31.	34.	42.	35.	50.	78•
FALD TORY LEVELS 1590020255 HITE SAMOS TABLE 8	TEMPERATURE	ENTIGRADE	?•c	•) 1	-1.1	0.4-	-11.9	-12.0	-13.5
₹	TEMPE	DE GREES C	24.5	21.6	10.5	12.4	5.1	2.5	-3.8	-10.1
12.5	UPOTENTIAL	FEET	4917.	6648.	8465.	10378.	12403.	14540.	16826.	19269.
.ON ALTITUDL 3489.10 FE, 1 115L 1712 US 151011 110. 255	PRESSURE LEUPOTENTIAL	MILLIHAKS	9.50°E	0.00%	750.0	700.0	h50.0	0.009	550.0	500.n
ON ALIITUD 1712 82 15104 140										

STATION ALIITUDE 4051.37 FEET MSL 8 JUNE 62 ASLENSION 40. 56	1•37 FEET M 0630 MDT	ب اکد	SIG.IFICANT LLYLL DATA 1590180055 LC-37 TABLE 9	NI LLVLL 17	A 1 A	*EOD_TIC_COONDINATES 32.40175 LAT_DEG 106.31232 LON_DEG
	PhESSURE MILLIBARS	PRESSURE GEOMETRIC ALTITUDE MILLIBARS ASE FELT	TEMPLRATURE AIR DEWPOLNI DFGREES CENTIGNALE	ATURE EWPOANI ENTIGHALE	Ri LandMa	
	876.9	4051.4	20.1	3		
	863.8	4481.2	54.9	, , , , , , , , , , , , , , , , , , ,	2 - 0	
		2.4464	54.4	2.1	ייני טייני	
		10412.5	12.8	÷ •	0 0	
		11892.1	9.6	J.	2 2	
		12263.0	7.8	7.9-	, ,	
		15684.0	-1.4	-12.9	1,13	
		17220.7	-5.4	-11.4	0.0.	
		18392.8	-8.6	-10.1	3	
		19301.3	-11.1	1.7.		

STATION ALIIIUDE 8 JUNE 82 ASCENSION 110.	100F	. 4 ₀ 51.37 FEET MSL 5 86 39 MDT	I MSL	_	UPPLE AIR DAIA 1590140055 LC-37 TABLE 10	V 1 2		v£0D£T1 32. 106.	UEODETIC COOKUINATES 32.44175 CAT DEG 106.31232 LOH DEG
GEONLTHIC ALTITUDE MSL FEET	PRESSURE MILLIUARS	-	TEMPERATUPE AIK DEWPOINT DEGREES CENTIGRADE	REL .HIM. PERCENT	DENSITY GM/CUBIC METUR	SPEED OF SOUND NIGOLS	LIRECTION DATA	TA SPEED KNOTS	INUEX OF NEFRACTION
4051.4	870.9	20.1	t) • 9	41.0	1037.4	6000	0.061	4.1	1.000274
4500.0	803.2	0.40		A8.8	1005.0	673.4	0.013	3.9	1.000203
50000	848.3	24.3	3.1	25.2	7.066	675.0	4.667	9.4	1.000253
5000.0	835.4	23.2	3.0	26.5	970.5		250.5	5.9	1.000250
0.0000	818.7	22.2	2∙8	27.9	962.5		565.3	7.5	1.000247
0.0000	804.3	21.1	2•5	29.3	0.646		200.7	7.4	1.000244
7000.0	790.5	20.0	2.5	30.6	935.0	7.099	7.06.7	7.0	1.000240
7500.0	770.3	19.0	1.3	32.0	922.5	_	24I.5	8.3	1.000237
60009	752.6	17.9	1.0	33.4	909.to	8.099	5.55.6	10.3	1.000233
8500.0	749.2	16.9	1.2	34.8	4.068	0.490	7.757	12.8	1 • 000 < 30
9900.0	730.0	15•8	٠.	36.1	4.488	65.0	K+622	15.4	1.000227
9500.0	723.0	14.7	₹	37.5	872.1	1.799	4.62.	16.7	1.0002.3
10000.0	710.3	13.7	1	38.9	859.9	6.099	6-122	17.8	1.000220
10500.0	8.169	12.5	1	40.7	846.1	659.5	<17.3	18.7	1.000216
7.00011	685.1	11.1	S••	8.44	837.1	057eu	<13.5	19.8	1.000214
11500.0	677.8	9.6	·7	48.8	820.3	1.050	0.417	21.2	1.000212
12000.0	9.099	8.2	75.4	47.1	815.4	4.450	7.17.0	25.2	1.000206
12500.0	4.049	7.2	-7-1	35.4	604.1	6.249	4-5-5	21.7	1.000196
13000.0	630.4	5.8	-8-1)	36.3	793.1		C.822	21.2	1.000193
13500.0	624.5	ۥ5	6.0-	37.2	782.2		4.00.3	20.5	1.000190
14000.0	615.9	3.1	F-6-	38.0	771.5	1.040	230.0	50.4	1.000166
0.00241	601.5	1.8	-10.7	38.9	760.9	_	5·002	20.8	1.000165
15000.0	590.4	.	-11.6	39.8	750.5		7.20,7	21.0	1.000160
15500.0	579.4	6•-	-12.6	40.7	740.		<34·5	21.4	1.000177
10000	568.5	-2.2	-12.5	6.44	729.8		2.00.2	22.7	1.000175
10500.0	557.6	-3.5	-12.1	51.1	715.5	2.040	22005	24.2	1.000173
17000.0	247.0	8.4-	-12.0	57.3	709.0		7.807	26.5	1.000171
17500.0	530.5	-6.2	-11.3	6•99	690.0	1.150	7.047	28.6	1.000169
18000.0	520.2	-7.5	-10.5	79.3	686.7	030.n	5.7.7	30.3	1.000168
18500.0	510.0	-8.9	-10+3	39•2	678.9	633.44			1.000100
19000.0	500.0	-10.3	-11.5	90.3	7.699	7.07			1.00016,3

GEODETIC COONDINATES SZ.4U175 LAT DEG 1U6.31232 LON JEG	A SPELD RNO1S	0 D T D T
6E G	ראר. בעיאר כו	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
	LIVELTION SP	257.0 252.3 252.3 222.0 231.1 231.1
7 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEL MU.A. PERCENT	20. 30. 40. 30. 50.
FA: 0. TORY LLVLS 1590160050 LC-37 TABLE 11	TEMPERATURE ALR DELPOTHE DEGREES CENTIGRADE	23.1 23.1 110.0 112.0 12.0 12.0 12.0
ď.	TEMPE A1R DEGREES C	24.4 20.6 10.9 12.8 7.3 1.1 1.1
1 MSL	PRESSUKE (EOPOTENT;AL	4941. 6669. 8487. 10402. 12424. 14563. 16839.
ALFITUDE 4,51.37 F; T MSL 82 N NO. 5630 MDT	PRESSURE (850.0 800.0 750.0 750.0 750.0 600.0
AL FITUDE 82 N NO.		

PREDSUKE	L DEONETHIC	TEMPL	TEMPLRATURE	HILLIOM.
		<		PERCENT
,1LL113ARS	S MSL FEET	Pt Grees	CEIII LORAUE	
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541.0	-	-4.7	-11.5	0.00
516.1		•	-10.6	43.0
90	_	•	-10.B	
60.	_	-15.3	-15.1	7.
452.7		٤	-17.6	•
45.	_	÷	•	,
437.3		•	4.12-	•
429.9	23094.4	-16.3	Ų.	٥.
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351.3	_	•	-54.7	0.44
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250.0	-	•		
	38995.1	-53.6		
200.0		•		
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50.0	~	-55.5		
	76.7	-55-9		
ċ		-50.7		

STATION ALITTULE 3989-40 FEET SE B JUNE 62 0702 MDT ASLENSION NO. 256

SIGNIFILANT LLVLL DAIA 15:900_0250 WHITE SANDS TABLE 12 CONT'd

-EODETIC COGGIGATES 32-40043 LAT ELG 106-57033 LON EG

RELINGM.

TEMPLRATUKE AIR DEMPOLIU DEGREES CENTIONALE

PRESSURE OFOMETRIC ALTITUDE WILLIBARS MSC FELT

-46.4

21.3 87047.5

STATION ALITUDE 8 JUNE 82 ASCENSIUM NO. 2	TUDE. ∠5	3y89+n0 FEET 0702 MDT 6	I MSL		UPPER AIR UMI 1590020250 WHITE SANCE TABLE 13	A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0L0DE11C 32.40 106.37	DETIC COUMDINATES 32.40043 LAT DEG 106.37033 LON LEG
GEUNETRIC AL111UDE	PRESSUR.	TEPH AIK	TEMPEMATURE K DEWPOINT	REL. HIM. PERCENT	DENSITY GM/CUBIC	St EEU OF	LIND DATA	11A SPEEL	INUEX
MSL FELI	MILLIDARS		CENT 16KADE		M. TLR	\$10m	"EORLES (IN)	NI40TS	REFRACTION
3989.0	878.5	å	A.A	36.0	1030.4		a • 96 T	4.1	1.000272
0.000÷	870.2	N	₽•9	35.9	1629.9	671.4	190.	4.1	1.000272
4500.0	865.0	8.4.	5•6	29.1	1004.9		215.0	3.7	1.000203
5000.0	840.1	# .	1 • 1	25.1	980.9	074.4	八・七本の	L. 4	1.000254
5500.0	835	2**	3.5	26.0	9,7,6		7•107	S .	1.000251
0.0000	6.018	23.0	သော ရ	0.72	0.047	0/1.0	2.0.7		1.000247
2000-0	794	5.00	H • -	8.87	3.486		0 0 0 d 1	7 17	1 - 000239
7500.0	770•	19.3	\ - -	70.7	922.0		0.447) c	1.000235
8000.0	765	16.2	•	32.0	909.0	_	23001	•	
0.0000	749.7	17.1	•	34.9	9009	6.499	7.00.7	12.8	1.000231
9.0006	730.4	16.1	1.7	37.8	083.7		7.077	•	1.000228
9500.0	723.3	15.1	1.8	40.7	871.0		262.1	•	1.000220
0.00001	710.5	1403	1.9	43.6	850.0		219.5	•	1.0002.5
10500.0	8.169	13.0	1.7	46.1	840.4		<10.1/	19.7	
11000.0	_	11.7		46.5	832.0		€17.0	20.5	1.000216
11500.0	6.729	10.5	۳. ا	46.9	823.1		217.9	21.1	1.000212
2000) • n n o	N 1	/·h-	37.3	813.5	ດ	6.64.7	21.0	1.000202
1<000.0	9.049	7.8	-8-5	30.4	802.7		223.U	21.7	•
3000	630.6	6.5	2.6-	51. 51.	355		220.1	21.9	1510001
13500.0	524.8	ر دور دور	6 · ć · ·	32.4	7.00.5		250.5	21.9	1.000188
14000.0	613.2	0 • C	-10.7	3.5.5	7.69.7		0.402	21.9	1.000185
14500.9	5001.8	9 # 50 -	-11.5	34°5	1.69/		0.107	22.3	1.000182
·nnac	7.000	C•1	-12.0	0000	2000		0.102	22.0	1.00017
100000	5 4 4 C)	10.0	0000	797	0.440	7. TC 7	24.7	1.000170
. 00ca	550.0	-2.6	-12.0	48.2	717.3		5.627	8°C2	1.000172
17000.0	547.4	-3.9	-11-5	55.5	707.0		31.5	26.7	1.000171
17500.0	537.0	-5-3	-11.1	63.6	697.1		233.1	27.7	1.000169
18000.6	520.7	-6.8	-10.8	73.1	691.5		7.062	28.7	1.00010.7
18500.6	510.5	-8.3	-10∙ი	42.6	070.		250.1	29.8	1.000160
0.00061	200.5	9-6-	-10.7	91.3	1. 099		747-7	31.0	
19500.0	400%	-10.8	-11.5	97.0	658.1		241.1	32.e	•
Z0000.C	2 · 0 2 ·	-12.0	-12.4	0.76	7.040		7.7.7	3.40	
20,200.0	477.2	-13.2	-13.5	97.0	630°		2.0.0	37.3	1.000154
21000.0	46/08	-14-3	-14.7	0.76	620.1	מי	7.00	~ •	1.000151
21500.0	420.6	-15.6	-16.0	0.74	019.	020°	J • T • T	1.04	1.000148
_	するかます	-1/-4	-20.5	76.2	# * # # # # # # # # # # # # # # # # # #	023.	7 • ft † 7	9	1.000143
25000.0	44C•4	110.4	-25.7	0 a 0 a 0 a 0 a	585.7	624.4	5 · V · V	40.7	1.000137

STATION ALIIT B JUNE 82 ASCENSION NO.	STATION ALIITUDE 3,989.00 Fe.T MSL 8 JUNE 82 0702 MDT ASLENSIUN NO. 256	89.ro Ft. 0702 MDT	.I mSL		UPPLE AIN UNT 15900c C.SC EHITC SAUDS TABLE 13 CON	AIN LATA Deficie SAUDS 13 Contid		32. 32. 106.	GLODETIC COURUINATES 32.40043 LAT DEG 106.37033 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSUR _E MILLIWARS	TEMP AIK DEGRÉES	TEMPLHATURE H DEWPOINT EES CENTIGRADE	REL.MUM. PEPCERIT	DENSITY GMZCURIC METER	SPEED OF SOUND AND AND 15	MINU DATA LIRECTION S LEGREES(IN) K	1A SPEEU KNOTS	INUEX OF HEFRACTION
0.0048 /	422.9	-17.2	0.40-	1, 1,	575	4.00	0.47.87	41.2	1.000135
24000.0	t 1 t .	-18.3	-24.7	56.9	566.1	3 %	7 m 7		
74500.0	0.004	0.61-	125°	55.8	556.0		7.07.07	42.0	1,0001/8
25000.0	397.8	-19.8	-26.5	55.2	546.7		243.0	42.8	
25500.0	389.7	-21.0	-27.4	55.7	536.1	Ī	5.447	43.2	1.000124
20000.0	301.8	-22.0	-28.7	54.6	529.4	_	7.542	42.9	1.000121
26500.0	373.9	-23.1	30.5	51.9	520.0	010.2	240.1	45.6	1.000119
27000.ù	300.2	-24.1	-31.6	49.3	512.0		740.0	45.8	1.000117
27500.0	358.7	~25•1	-33.1	46.6	503.5		245.4	43.3	1.000114
28000.0	351.3	-26.1	-34.7	0.44	495.5		ロ・オナフ	43.9	1.000112
28500.0	0.00°	-27.4	-35.8	1 t t • 1	487.5		245.45	5. 5. 1. 1.	1.000110
<9000°	330.6	-28.6	-37.0	n • t t	オ・ハノコ		/•! 47	47.1	
29500.0	323.5	-59.9	-38.1	す。 オ・オナ	471.6		C+0+7	£8.3	1.000107
20000.0	322.5	-31.2	-39.5	\$	7. 191		0.60×	6.84	1.000105
20200.0	210.	132.5	n•0n-	/ * n n	420.4		230.0	49.5	1.000103
31000.0	30%0	-33.	-41.5	æ .	S.644		10/07	D . ()	10000101
31500.0	205-5	-35.0	-42.7	O F	t • 2 to to		7.7.0	4.0°	1.000099
22000.0	6.062	30.2	145.0	***	1.00+		7.007	•	1.04098
32500.0	267.4	-37.5	C C C C C C C C C C C C C C C C C C C	31.2**	427.0		0.00×	0.0	1.000096
9.000C	1000	000	0.20	*****	0.021		0.45	n 0	*60000.
0.00000	0.012	6.661	8 · 4C ·	'n	2011		77.7	6. 0. 3.	760000 T
34000.0	0.77 7.74 9.74	141.	8 • ha_		2 x 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.000 0.000	7.007 7.007	7. C	1.000041
0.00046	254.0	9.5.4			39.50		1.40/	7.1.	1.00000
35500.0	253.2	6 • 4 4 -			380.4		24.0	51.9	1.000066
36000.6	241.5	-46.1			379.0		235.u	52.2	1.000005
36500.0	241.8	4-24-			373.1		430.0	52.5	1.000063
37000.0	230.3	-48·6			360.0		<57.to	52.9	
37500.6	230.9	6.64-			360.5		<.50.5	53.3	1.000080
38000.0	225.6	-51.1			355.9	580.5	C.46.5	53.6	1.000079
28200.0	220.4	-52.4			24/40		520.0	0.40	1.0000.1
39000.0	210.4	-53.6			341.7		<33.0	55.7	
0.00565	c•017	-53.6			733.7		521.5	21.5	1.0000/4
400000	200°-4	-53.6 -53.6			325.9	577.2	< 51.5 < 51.1	59.8 62.3	1.000073
41000.0	10,401	0-12-1			310.7		0.557	50.5	1,00007
41500.0	191.2	-50.5			307.4		235.5	61.8	1.000004
42000.0	140.6	-5.8.0			302.2		7.7	60.8	1.000007
42500.0	184.2	-59.6			297.1		255.4	59.1	1.000066
43000.0	177.8	-61.1			292.2	567.2	234.1	57.3	1.000005

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AT LEAST ONE ASSUMED RELATIVE HUNIUITY VALUE "AS URE! IN THE INTERPOLATION.

LTIC CUGNDINATES 32.4uu43 LAT DEG 06.37033 LON DEG	INDEX OF REFRACTION	1.000064	1.000001	000060	•0000P	000057	440000	*0000	1.000052	000051	1.000050	• 000048	1.000047	3,0000	C *0000 • 1	7.0004.0	7,0000	1.000040	.000039	•000038	000037	•000036	• 000035	1.000035	*0000°	1.00003	1.000052	1.000031	.000030	1.000029	1.000028	1.000028	1.000027	1.000020	1.000025	C20000.	*20000
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	PEEU NOTS	57.5		60.9	62.0	62.9		57.4					50.8		T					30.5	28.4	25.7			20.1		21.5					3.5			2.5	· · ·	1.2
	"INU DAIA "IRLCITU" S	2.022	220.5	241.3	<23.9	250.1	2.572.5	228.1	4.062	239.3	234.6	642.0	244.0	7.8.7	0.202 2.444	2.22.	1000 N	257.0	255.4	2.002	755.0	255.5	7.057	220.3	507°	C. 1C.	V 0 • 0	1.81×	255.0	204.1	6-262	300.0	7.755	2.50	2 4 5	0.00	•
UATA Sse Nos Cont'd	SPLED OF SUUND KNOTS	565.2	562.6	561.9	561.3	560•6	0000	5.65	558.7	559.1	554.7	560.5	560 · 8	261.3	561.9	2000	56,44	567.5	202.5	262.1	562.8	562.1	563.1	562.3	9.195	8.095	256.1	55%	560.3	961.0	563.0	56403	265.7	567.0	268.1	8.995	256.4
UPPER AIN UAT 1.90020256 WHITE SANUS TABLE 13 CON	DENSITY SIGM/CUBIC SIMETER	287.5	270.1	269.9	263.9	256.0	2.202	240.5	234.9	220.0	222.7	210.6	211.0	205.4	200.0	184.6	185.	180.7	170.3	172.1	167.5	163.2	159.	155.7	152.3	A	140.7	139.1	135.1	131.1	127.3	123.0	120.0	110.5	113.3	2011	8.701
2	REL.HUM. PERCENT																																				
STATION ALTITUDE 3989.CO FEET WSL 8 JUNE 82 ASCENSION NO. 256	TEAPERATURE AIR DEWPOINT DEGNEES CENTIGRADE	-62.7	9.49-	-65.1	-65.6	-66.1	16043	-67.1	-67.5	-67.2	7-66-7	-66.3	-65.9	-65.5	-65.1		¥ = 7 9 - 1	2.49-1	0.40	-65.0	-64.5	-64.2	2.4.5	8.49-	# • S. S.	6.09	-66.5	-67.3	-66-3	-65.3	D+44-1	-63.3	-(,2•3	-61+3	-60.5	0.09-	-60.2
117UDE 398	PRESSURE MILLIBARS	173.6	165.2	161.2	157.2	150.3	149.0	142.2	138.7	135.3	131.9	120.7	125.5	122.4	1100	114.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000	105.4	102.9	100.3	61.6	92.5	90.1	90.9	98	000 000 000 000 000 000	62.0	80.5	70.5	76.3	74.5	14.6	70.9	64.2	c•/9	62.9
STATION ALTIT B JUNE B2 ASLENSION NO.	GEUMETRIC ALTITUDE MSL FEEI M	4.3500.0	44500.0	45000.0	45500.0	46000.0	46500.0	47500.0	48000.0	48500.0	49000.0	49500.0	0.0000c	50500.0	51000.0	0.000.0	0.00000	53000-0	53500.0	54000.0	54500.0	55000.0	55500.0	0.00095	56500.0	0.000/5	5800.0	0-00444	0.00064	59500•0	0.00000	0.00000	0.1000.0	61500.0	62000·0	0.2200	0.00000

DETIC COGNDINATES 32.40043 LAT LEG 106.37033 LON DEG	INDEX OF HEFKACTION	1.000023	1.00002	7			700001	•	-	1.000018	. ~		-	-	1.000016	1	-	┩.	100001	-	1.00001	1.00001	٦.	7100001	-	• -	1.000011	1.000011	1.000010	1.00001		1.000009	1.000009	1.000009
vEODETIC 32.4u 106.37	JPEEU KNOTS	N. S.	9.9	9∙ €	10.3	12.0	14.9	14.9	15.0	14.2	12.5	12.8	13.0	13.2	13.3	12.8	11.7	10.6	5.01	12.8	14.0	15.3	16.6	18.0	24.0) to 100	25.9	ۏ	25.5	22.8	ó	16.5	14.5	13.1
	WIND DATA	100.0	101.7	7.7.0	1.46	7.4.7	2.72	101.0	104.0	7.004 0.004	111104	111.0	110.0	109.7	107.0	103.0	160.5	0.06	0.1% 1.1%	82.5	G-09	7.67	77.0	7 - 17	71.5	3.77	02.7	87.5	9.25	0.85	7	3.50	6.76	¥3.6
11K JALA Selesion Selesion 13 Cont'd	SPEED OF SOUND KNOIS	567.9				571.3			574.1	574.0	5.0.0 5.75.0				570•1 570•2	570.4	570.6	576.8	6.0/5		577.4			6.776			580.2	560.9	581.4	287.	4 4 4 4			
UPPLR AIR UAFA 159002U25U WHITE SAHUS TABLE 13 CONT	DEWSITY GM/CUBIC METER	105.4	100.0	97.4	9.46	92.9	87.	85.0	83.1	80°5 7×5	77.0	75.2	73.4	71.6	7.69 7.89	9•99	65.0	65.5 5.50	0.29	59.0	57.6	50.0	φ. • ±0.	33.tb	5.15	44.7	4.04	7.64	100)	100	41.6	40°	39.6
-	REL.HUM. PERCENT																																	
3y89,00 F _{EF} 1 MSL 0702 MDT 6	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-60.7	-59.7	-59.1	-58.6	158•1	157.0	156.5	150.0	155.4	1 C C C C C C C C C C C C C C C C C C C	6-45-	1-24-7	-54.6	-554.5 -54.4	-54.2	-54-1	0.40	153.8	-53.6 -53.6	-53.5	-53.3	-53.2	153.1	4 · 2 · 1	0.64	-51.4	-50.8	*50 • 5	5.0°	4 · · · · · · · · · · · · · · · · · · ·	の・かずし	0.64-	-48+7
34	PKESSURE MILL1BARS	64.3	61.3	54.8	58.4	57.0	5.00	55.1	51.8	50.6	644	4/•1	40.0	6•++	40.9 44.9	41.9	6.04	34.9	39.0	37.2	30.3	35.5	34.7	33.0	4 F	32.0	30.8	30.1	29.4	2000	7.5	26.92	20.2	20.7
STATION ALIITUDE 8 JUNE 82 ASCENSIUN NO. 2	GEOMETRIC ALLITUDE MSL FEET	03500.0	64500.0	0.00000	0.5500.0	0.00000	0.000	0.00079	0.00089	0.00280	0.0000	7,0000.0	705007	71000.0	71500.0	72500.0	7.5000.0	73500.0	74000.0	75000.0	75500.0	76000.0	70500.0	0.00077	0.00077	745.00.0	7,9000.0	79500.0	900000	0.00001	00040	82000.0	82500.0	0.00000

GEODETIC COUNCINATES 52.40043 LAT DEG 106.37033 LOH DEG	INUEX OF REFRACTION	1.000009 1.000008 1.000008 1.000008 1.000008 1.000009
020021 (0	SPEEU KNOTS	트로 로 프로
	#1NU DATA #1NU DATA #1JRLCTIUN SF	97.0 9.00 9.7.6 9.7.7
oo Sont'd	SPEED OF SOUND NAOTS	584.1 584.7 585.1 585.1 585.5 585.5 585.3
Us Per Air Laid 1590020250 WHITE SANDS TABLE 13 Cont'd	REL.HUM. NEMSITY SPLED UP PERCENT GM/CUBIC SOUND METER NAOIS	33.00 33.00 33.00 33.00 34.00 37.00 37.00
)	REL.HUM. PERCENT	
STATION ALIITUDE 3489-10 Ff. 1 MSL 8 JUNE 82 0702 MDT ASCENSION NO. 256	PRESSURE TEMPERATURE AIR DEMPOINT MILLIUARS DEGREES CENTIGRADE	148.7 147.9 147.9 147.9 147.9
111UDE 3489 07 10. 256	PRESSURE MILLIDARS D	
STATION ALT 8 JUNE 82 ASCENSION 1	GEUMETRIC PRESSURE ALIITUUL MSL FEET MILLIUARS	64500.0 64500.0 64500.0 65500.0 66000.0 65500.0

AIA			9.	5 .0	14.08	19.4	21.7	457	5.02	32.1	40 . 8	44.6	44.1	40.4	54.1	9-79	57.3	04.5	50.9	Z8.2	10.6	۰.0	٥ ٠ ٥	13.8	10.7	h*07	11.7
1 Cill	UIRLLTAON	,,EGKEESTR	8.142	260.2	250.0	217.1	224.1	231.0	251+1	241.5	244.0	243.5	0.447	200.7	235.2	231.1	230.4	235.1	0.447	255.0	2555	4.08	6.74	107.8	4.76	0•a8	97.6
KEL . HU.			25.	20.	35.	• O †	30.	35.	54.	.26	80.	55.	***	#: •:													
ERA TURE	DEAPOINT	CENTIGRADL	4.1	2•3	1.5	1.B	-8.4	-11.6	-11.0	-10.6	-19.9	-26.2	-34.9	-43.1													
		DEGNEES (25.6	21.3	17.2	13.2	0.0	2.4	-3.6	-10.4	-17.3	-19.5	-26.3	-35.5	-45.6	-53.6	-62.2	-66.5	6-69-	4.49-	-66.2	-60.8	-59.2	-55.2	-54.0	-50.7	7.87-
OPOTENTIAL		FEET	4933.	6667.	8486.	10404.	12432.	14576.	16859.	19300.	21933.	24826.	28037.	31627.	35703.	40468.	43230.	46316.	49931.	54397.	58846.	61536.	64692.	68475.	73162.	79250.	63168.
PRESSURE GE		MILLIBARS	0.058	0.003	750.0	0.007	0.059	0.00%	0.063	0.009	U•05h	0.004	350.0	300.0	250•0	0.005	175.0	150.0	125.0	100.0	80.0	10.07	0.09	0.03	0.04	30.0	25.0
	TEMPERATURE MEL.HUM.	MPEKATURE MEL.HUM. MINU DAI DEMPOINT PLRCENT UINCLTION	GEOPOTENTIAL TEMPERATURE MEL.HUM. #ILL DAI AIR DEMPOINT PLRCENT UIMLLTJON FEET DEGREES CENTIGRADL LEGKEESITN)	GEUPOTENTIAL TEMPEKATURE REL.HUM. "HUM DAI AIR DEMPOINT PLRCENT UIRCLT10N FEET DEGREES CENTIGRADL "EGREESITN) 0 4933. 25.6 4.1 25. 241.8 4	GEUPOTENTIAL TEMPEKATURE REL.HUM. #1100 DAI AIR DEMPOINT PLRCENT UIRCLION FEET DEGREES CENTIGRADL ,,EGREES(TN) 0 4933, 25.6 4.1 25. 241.8 4	GEUPOTENTIAL TEMPEKATURE REL.HUM. "HIM DAI AIR DEMPOINT PLRCENT UINCLTION FEET DEGREES CENTIGRADL "EGREESITN) 0 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 20. 260.2 6	GEUPOTENTIAL TEMPEKATURE REL.HUM. "HIM DAI AIR DEMPOINT PLRCENT UINLCTION DEGREES CENTIGRADL "EGREESTIN) 0 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 20. 241.8 4 0 6667. 17.2 1.5 35. 250.0 12 0 8486. 17.2 1.5 35. 250.0 12 0 10404. 13.2 1.8 40. 217.1 19	GEUPOTENTIAL TEMPEKATURE REL.HUM. "HIM DAI AIR DEMPOINT PLRCENT UINLLTION DEGREES CENTIGRADL "EGREESTIN) O 4933. 25.6 4.1 25. 241.8 4 O 6667. 21.3 2.2 20. 261.2 0 O 8486. 17.2 1.5 35. 250.0 1.4 O 10404. 13.2 1.8 40. 217.1 19	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILU DAI AIR DEMPOINT PLRCENT UIRCLTAON DEMPOINT PLRCENT UIRCLTAON 10 4933. 25.6 4.1 25. 241.8 4.0 6667. 21.3 2.2 26. 250.0 17.2 1.5 35. 250.0 1.4 1.5 35. 250.0 1.4 1.5 35. 250.0 1.4 1.6 35. 231.0 22.7 21.0 14576. 2.4 -11.6 35. 231.0 22.7 22.0 14576. 2.4 -11.6 35. 231.0 22.7	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILO DAI AIR DEMPOINT PLRCENT UTACLIZON DEMPOINT PLRCENT UTACLIZON DEMPOINT PLRCENT UTACLIZON DEMPOINT PLRCENT UTACLIZON DEMPOINT PLRCENT UTACLIZON DEMPOINT UTACLIZON	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UIRLLION DESCREES CENTIGRAUL LACKLION DEGREES TAIN DEGREES CENTIGRAUL LACKLION DEGREES TON DEGREES TON DEGR	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILO DAI AIR DEMPOINT PLRCENT UIALCTION 1 4933. 25.6 4.1 25. 241.8 4.0 6667. 21.3 2.2 20. 250.2 1.2 0.0 8486. 17.2 1.5 35. 250.0 1.2 0.0 12432. 0.0 -8.4 30. 222.7 21 0.0 14576. 2.4 -11.6 35. 231.1 22.0 145763.6 -11.6 35. 241.5 32.0 0.0 1930010.4 -10.6 97. 2441.5 32.0 10.3 2193317.3 -19.9 80. 2441.5 40	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILO DAI AIR DEMPOINT PLRCENT UIALCTION 1 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 20. 260.2 ad 0 6667. 21.3 2.2 20. 250.0 ad 0 12432. 6.0 -8.4 30. 222.7 21 0 12432. 6.0 -8.4 30. 222.7 21 0 156593.6 -11.0 54. 231.1 20 0 1950010.4 -10.9 80. 244.0 40 2193317.3 -19.9 80. 244.0 40 2442619.5 -26.2 55. 245.5 442	GEUPOTENTIAL TEMPERATURE REL.HUM. Allin DAI AIR DEMPOINT PLRCENT UIALCTION TEET DEGREES CENTIGRADL LEGREESITN) 0 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 26. 250.0 12 0 8486. 17.2 1.5 35. 250.0 12 0 12432. 6.0 -8.4 30. 222.7 21 0 12432. 2.4 -11.6 35. 231.0 22 0 156593.6 -11.0 54. 231.1 20 0 1930010.4 -10.6 97. 244.0 40 0 293317.3 -19.9 80. 244.0 40 0 2803726.2 55. 243.3 44	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILL DAI AIR DEMPOINT PLRCENT UIRCLIANN FEET DEGREES CENTIGRAUL LEGREESITN) 1 4933. 25.6 4.1 25. 241.8 4 6667. 21.3 2.2 26. 250.0 15 10404. 13.2 1.5 35. 250.0 15 10404. 13.2 1.6 35. 250.0 15 114576. 2.4 -11.6 35. 251.0 22 115893.6 -11.0 54. 251.1 20 1930010.4 -10.0 97. 244.0 40 2193317.3 -19.9 80. 244.0 40 22803726.3 -34.9 44. 244.0 49 3162735.5 -43.1 45. 250.7 49	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRCENT UTACLTION 10 4933. 25.6 4.1 25. 241.8 4.0 6667. 21.3 2.2 260.2 1.5 1.5 35. 250.0 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRCENT UNALCTION THET DEGREES CENTIGRAUL LEGREES TRN) 0 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 26. 250.0 12 0 8486. 17.2 1.5 35. 250.0 12 0 12436. 6.0 -8.4 30. 226.7 21 0 124563.6 -11.6 54. 251.1 52 0 1950010.4 -11.6 54. 251.1 52 0 1950010.4 -10.6 54. 241.5 56 0 2803726.3 -44.9 44. 244.0 49 0 3570345.6 -43.1 45. 250.2 55 0 4046553.6	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UNALLIANN 1 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 26. 260.2 1 0 6667. 21.3 2.2 26. 260.2 1 0 10404. 13.2 1.8 46. 220.0 1 0 12432. 6.0 -8.4 30. 221.0 22 0 12432. 2.4 -11.6 35. 231.0 22 0 1457610.4 -11.6 35. 231.0 22 0 1930010.4 -10.8 97. 241.5 32 0 2482619.5 -26.2 55. 244.0 40 19503726.2 -43.1 45. 230.2 55 0 3570345.6 231.1 230.1 230.2 230.2 230.4 53	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UIRCLION 10004. 01607. 21.3 2.2 20. 241.8 40. 17.2 1.5 35. 250.0 1.2 1.5 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILO DAI AIR DEMPOINT PLRCENT UIALCTION 1 4933. 25.6 4.1 25. 241.8 4.1 2667. 250.2 12.2 260.2 12.3 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 12.4 1.5 35. 250.0 1.5 250	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILO DAI AIR DEMPOINT PLRCENT UIALCTION 1 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 20. 260.2 12 0 6667. 21.3 2.2 20. 241.8 4 0 12432. 0.0 -0.4 1.6 35. 221.0 221.0 1457610.4 -10.6 97. 241.5 32. 241.5 32. 221.0 221.	GEUPOTENTIAL TEMPERATURE REL.HUM. #ILO DAI AIR DEMPOINT PLRCENT UIALCTION 1 4933. 25.6 4.1 25. 241.8 4 0 6667. 21.3 2.2 20. 250.0 12 0 12432. 0.0 -8.4 30. 227.1 13 1 10404. 13.2 1.6 35. 220.0 222.7 1 168593.6 -11.0 54. 231.0 22 1 168593.6 -11.0 54. 231.0 22 1 2193317.3 -19.9 80. 244.0 40 2 2803726.2 55. 244.0 40 2 2803726.3 -43.1 45. 220.7 49 1 4525062.2 25.6 25.1 20 1 452665.5 -43.1 45. 220.7 49 4 451666.5 25. 245.0 20 1 453062.2 25.0 20 1 453165.9 25.0 25.1 04 2 255.1 04 2 255.1 04 2 255.2 10	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRCENT UNACCTION AIR DEMPOINT PLRCENT UNACCTION G667. 21.3 22.2 22. 241.8 4 G667. 21.3 2.2 24.8 4 G667. 21.3 2.2 24.8 4 G667. 21.3 2.6 22. 250.0 124.8 G667. 2.4 -11.6 35. 231.0 22.7 21 G66893.6 -11.6 35. 231.0 22.7 22 G68993.6 -11.6 35. 231.0 22.7 22 G689917.3 -19.9 40. 241.5 22.7 22 G789917.3 -19.9 40. 241.5 22.7 22 G789726.3 -44.9 44. 241.5 22.7 22 G789766.5 -66.5 22.0 22.0 22 G789766.5 22.0 22.0 22.0 22 G789766.5 22.0 22.0 22 G789766.2 22.0 22.0 22 G789766.2 20.0 20.0 20.0 20.0 20.0 20.0 20.0	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UIRCLTION AIR DEMPOINT PLRLENT UIRCLTION GEOT. 21.3 2.2 20. 241.8 4 GEOT. 21.3 1.5 35. 250.0 1.4 HOUGH. 13.2 1.8 40. 221.1 19 12432. 2.4 -11.6 35. 231.0 221.1 19 145763.6 -11.0 97. 221.1 19 1950010.4 -11.0 54. 221.1 22 1950010.4 -10.9 80. 241.5 221.1 22 1950010.4 -10.9 80. 241.5 221.1 22 1950010.4 -10.9 80. 241.5 221.1 22 1950010.4 -10.9 80. 241.5 221.1 22 1950010.4 22.0 44. 241.5 221.1 24.0 44 4525066.5 -43.1 45. 225.1 24 4631666.5 22. 22 19600. 5884666.5 225.1 10 6153660.8 50.9 225.1 10 6153660.8 50.9 225.1 10 6153660.8 60.0 284.0 225.1 10 6153660.8 60.0 284.0 225.1 10 6153660.8 60.0 284.0 225.1 10 6153660.8 60.0 284.0 225.1 10 6153660.8 60.0 284.0 225.1 10 6153660.8 60.0 285.1 10 6469259.2 70.4 27.1 225.1 10 6469259.2 70.4 27.1 220.4 225.1 10 6469259.2 70.4 27.1 220.4 225.1 10 6469259.2 70.4 27.1 220.4 22	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UNALLIANN FEET DEGREES CENTIGRAUL LEGIRESITA) 104933. 25.6 4.1 25. 241.8 4 10404. 13.2 1.5 35. 250.0 1.4 10404. 13.2 1.8 40. 221.1 19 10404. 13.2 1.8 40. 221.1 19 10404. 13.2 1.8 40. 221.1 19 10404. 13.2 1.8 40. 221.1 19 1040410.4 -11.6 35. 231.0 22 104063.6 -11.0 97. 241.5 32 1050010.4 -11.0 97. 241.5 32 1050010.4 -10.6 97. 241.5 32 1050010.4 -10.6 97. 241.5 32 1050010.4 -10.6 97. 241.5 32 1050010.5 -26.2 44.0 44. 241.5 32 1060656.5 -43.1 45. 235.1 62 1060666.5 -43.1 45. 235.1 62 1060666.5 -66.5 235.1 225.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 235.1 10 1060666.5 -66.5 335.1 10 1060666.5 335.1 10 1060666	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UNALLIJON AIR DEMPOINT PLRLENT UNALLIJON 1 4933. 25.6 4.1 25. 241.8 4.1 25. 250.2 12.1 12.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	GEUPOTENTIAL TEMPERATURE REL.HUM. "ILLU DAI AIR DEMPOINT PLRLENT UIRCLION 1 4933. 25.6 4.1 25. 241.8 4 6667. 21.3 2.2 20. 250.2 12 1 6667. 21.3 2.2 20. 250.2 12 1 10404. 13.2 1.8 40. 220.2 12 1 10404. 13.2 1.8 40. 220.2 12 1 10404. 13.2 1.8 40. 220.2 12 1 10404. 13.2 1.8 40. 221.1 13 1 10404. 13.2 1.8 40. 221.1 13 1 104053.6 -11.6 35. 231.1 22 1 1040510.4 -10.8 97. 241.5 22 1 2803726.3 -19.9 80. 244.0 40 2 2803726.3 -26.2 55. 244.0 40 2 2803726.3 -43.1 40. 220.7 49 1 1040653.6 -43.1 40. 220.7 49 1 4051066.5 2 231.1 57 1 4093165.9 220.9 220.9 1 4093165.9 220.9 220.9 1 4093165.9 220.9 220.9 1 6469255.2 107.8 110 7 725050.7 20.0 20 1 725050.9 20.0 20 1 725050.9 20.0 20 1 725050.9 20.0 20 1 725050.9 20 1 72

\$16,1F1cANT LEVLE UALA 15301a0US, 1C-37 1U6.31232 LON DEG	TEMPLRATUKE MFL.NUM. AIR DEWPOIN! PERCENT DEGREES CENIIGRADE	1.6	1.0	٠-	1	١.٠٧	5.0	1.6	?.	-10.4	-10.7	-8-3	T.Q_	2.7-	•
\$16,118 1 TA	TE: A1R DF GREI	24.1	24.6	22.7	20.6	15.8	15.0	13.8	12.5	±	3.5	-3.6	-3.8	-7.4	-10.0
75	PRESSURE OFOMETALC ALTITUDE MILLIBARS MSL FELT	4051.4	4972.8	5,431.1	6927.7	8757.7	9135,1	9871.9	10438.9	13610.7	15257.6	16292.0	10673.8	18189.0	19332.0
STATION ALIITUDE 4U51.37 FLFT MSL 8 JUNE 82 0830 MDT ASCENSION NO. 57	PRE5SURL MILLIBARS	7-11-1	850.0	6.450	791.7	7 4 5 4 7	733.7	3.447	0.007	622.1	285	7.695	5.455	522.9	0.005

STATION ACITIUDE 8 JUNE 62 ASCENSION NO.	1 ^U DE • 5	4,51.37 FEE1 0830 MDT	El MSL	-	UPPER AIR UNIA 1550160457 LC-37 TABLE 16	A 1 2 2		∪_002⊾TI 32• 106•	9.00ELTC COURDIMATES 32.40175 LAT DEG 106.31232 LOH DEG
GEUMLTRIC ALIIIUUL MSL FELT	PRESSUR _L NILLIUARS	TENIP AIK DECKLES	TENPERATURE K DEWPOLUT LES CENTIGRADE	REL.HUM. PLRCENT	DENSITY : GM/CUBIC MLTER	SPLED OF SOURD KROES	UINCLING SI	14 SPEEU NIUTS	INDEX OF REFRACTION
4051.4	87/1.7	24.1	9.7	0.04	1025.5	073.4	1/0.0	0.9	1.00620
4500.0		24.3	6.3	51.2	1007.7		105.4	5.2	1.000215
5000.0	849.2	24.5	1.4	22.0	₽•06b		7.1.7	4.8	1.000250
5500.0	834.5	73.4	3 •	22.0	4.770		6-022	5.2	1.000245
0.0000	820.0	22.4	1	22.5	965.9	070.7	7+2+5	0.5	1.000241
9,0000	•	21.4	;	23.8	950.	0.690	7.007	7.7	1.000238
7000.3	•	70.4	0•	25.6	930.7	668.5	278.0	7.6	1.000255
0.0067		19.1	7.	4°68	1.424	0.200	C-422	11.7	1.000255
C.000a		17.8	1.4	53.5	911.0	0.090	241.6	13.9	1.000233
0.0000		16.5	₽•I	37.0	999.0	7.490	218.5	15.4	1.000232
70006	75/03	15.3	4.2	47.3	886.7	_	6.012	10.9	1.000235
0.00ck		14.4	3.6	48.0	875.0		210.0	18.2	1.000231
10000.0	711.2	13.5	1.4	43.8	461.	9.000	211.5	19.5	1.000223
10500.0	4.069	12.3	•	42.8	A49.4		510.5	50.9	1.000218
11000.0	685.7	11.1	-1•b	41.2	837.9		Z10.9	22.3	1.000212
11500.0	673.2	9•6	-3.3	29.7	950.6	2.050	<15.1	55.6	1.000267
12000.0	6•099	8.5	f. • t) -	59.1	415.4	0.460	217.0	22.7	1.000202
12500.0	6•046	7.2	9.9-	36.5	9·400		20.002	21.6	1.000197
13000.0	63/0	0•9	-(4.3	34.9	793.5		264.5	20.1	1.000193
13500.0		4.7	-10.0	53.4	782.8		0.4.77	20.5	1.000168
14000.0		3.3	-10.4	35.8	774.5	_	2<4.0	21.4	1.000180
14500.0	₩• 209	1.8	-10.5	39.5	762.11	6.040	4.027	24.1	1.300165
15000.0	591.1	£.	-10.8	43.1	751.0		2000	55.9	1.000181
15500.0		-1.2	-10.1	50.9	741.7	_	インイ・サ	27.0	1.000180
10000.0	269.0	-2.7	₽•8-	65.6	731.5	6.149	230.0	28.5	1.060179
16500.0		-3.7	-8.5	71.1	720.1		242.3	29.7	1.000178
17000.0	547.5	9.4-	1.8-	74.8	700.		240.0	30.8	1.000175
17500.0	537.0	-5.8	₽•₽-	79.1	1.060		C+847	30.8	1.000172
19000	520.7	-7.0	-9.3	83.4	687.€	2000	74707	30.8	1.000169
16500.0	9.015	-8-1	-10.1	45.3	6711•U	D-450			1.000166
0.00061	200•2	-9.5	-11.2	85.7	667.4	c•rç0			1.000163

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٥FC	1 4 1 A 3	5 Z	*	3.0	12.	0,7	61.7	* * V	30.1	
	AIND CAIA	_	205.0	232 • 7	218.4	211.0	250.5	550.4	7.047	
.45k3	NEL MO.		24.	24•	37.		.10	+ 0+	74.	80.
1.A.D. TORY LLALA 1590140057 LC-37 TABLE 17	TEMPERATURE	ENTIGRADE	1.5	∵	1.	·?•	-6.5	-10.0	5.8-	-11.9
<u><</u>	TEMPE	DEGREES C	24.6	21.0	15.4	12.5	7.4	1.5	-4.3	-10.0
1 F.S.L	OPOTENTIAL	FELT	4969	6609	8514.	10428.	12450.	14590.	16863.	19305.
STATION ALITIUME 4,51.37 FE, T 1.5L 8 JUNE 42 ASLENSION 140. 57	HRESGURE GEOPOTENTIAL	MILLIDARS	0.50€8	ٕ609	0.067	0.007	0.059	U•009	550.0	0.002

